

CEBS Microarray Data

Toxicogenomics studies that employ microarrays evaluate the biological response to a toxicological challenge at the level of the genome. Results from these studies are typically reported as gene and molecular pathway read outs, which can be further analyzed for their relationship to toxicity and disease outcomes. Datasets are provided as raw, probe-level files including CEL files (Affymetrix arrays) and TXT files (CodeLink or Agilent arrays).

This data domain is part of Chemical Effects in Biological Systems (CEBS) database maintained by the [National Toxicology Program](#).

These data are divided into folders by the institution that collected the data. The following directories and files are found for each institution:

- [CEBS Accession Number Directory](#): study data organized by CEBS accession number
- [Platform Directory](#): array type(s) / platform(s) used in each study
- [Raw Data Files](#): CEL or TXT files containing raw, probe-level data

Three datasets are provided separately from the institution of origin:

- Elk River – contains data for the NTP toxicogenomics study of the chemicals from the West Virginia, Elk River chemical spill. This dataset has 3 test article folders, each contains:
 - Zip Data File: experimental data files
 - Annotation File: details of data processing
 - Zip BMDExpress File: benchmark dose analysis tools
- MouseLiver – contains data from GEO for toxicogenomics studies of liver; dataset complied in 2012. Files provide study details and normalized data.
- DrugMatrix – contains data from NTP DrugMatrix, a comprehensive rat toxicogenomics dataset, organized by tissue and array type.

Links to Institution/Lab Data:

- [ArrayExpress](ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/ArrayExpress/): <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/ArrayExpress/>
- [EPA](ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/EPA/): <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/EPA/>
- [ElkRiver](ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/ElkRiver/): <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/ElkRiver/>
- [GSK](ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/GSK/): <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/GSK/>
- [HESI](ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/HESI/): <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/HESI/>

- **Hamner:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/Hamner/>
- **Iconix:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/Iconix/>
- **J&J:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/J&J/>
- **KleebergerLab:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/KleebergerLab/>
- **MAQCII:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/MAQCII/>
- **MouseLiver:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/MouseLiver/>
- **NCI:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/NCI/>
- **NCT:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/NCT/>
- **NTP:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/NTP/>
- **Novartis:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/Novartis/>
- **OlsonLab:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/OlsonLab/>
- **Original:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/Original/>
- **Pfizer:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/Pfizer/>
- **Provantis:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/Provantis/>
- **Sankyo:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/Sankyo/>
- **TRC:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/TRC/>
- **USACE:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/USACE/>

- **WilliamsLab:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/WilliamsLab/>
- **DrugMatrix:** <ftp://anonftp.niehs.nih.gov/ntp-cebs/datatype/microarray/drugmatrix/>